



ZPB-TH

座ぐり加工用 サグリボーラー

開発技術の
日立ツール



●材質：超硬合金 ●表面処理：THコート (TiSiN) ●先端角：180°

・先端角が180°（フラット）により、平面だけでなく傾斜面に座ぐり穴加工できます。

| TYコード | 型番 | 刃径 | 溝長 | 全長 | シャンク | 分類 | TYコード | 型番 | 刃径 | 溝長 | 全長 | シャンク | 分類 |
|---------|------------|-----|----|----|------|----|---------|------------|------|----|-----|------|----|
| HT22409 | ZPB0200-TH | 2 | 8 | 50 | 4 | □ | HT21838 | ZPB0750-TH | 7.5 | 26 | 70 | 8 | □ |
| HT22410 | ZPB0210-TH | 2.1 | 8 | 50 | 4 | □ | HT22451 | ZPB0760-TH | 7.6 | 28 | 70 | 8 | □ |
| HT22411 | ZPB0220-TH | 2.2 | 8 | 50 | 4 | □ | HT22452 | ZPB0770-TH | 7.7 | 28 | 70 | 8 | □ |
| HT22412 | ZPB0230-TH | 2.3 | 8 | 50 | 4 | □ | HT22453 | ZPB0780-TH | 7.8 | 28 | 70 | 8 | □ |
| HT22413 | ZPB0240-TH | 2.4 | 8 | 50 | 4 | □ | HT22454 | ZPB0790-TH | 7.9 | 28 | 70 | 8 | □ |
| HT22414 | ZPB0250-TH | 2.5 | 10 | 50 | 4 | □ | HT21839 | ZPB0800-TH | 8 | 28 | 70 | 8 | ● |
| HT22415 | ZPB0260-TH | 2.6 | 10 | 50 | 4 | □ | HT22455 | ZPB0810-TH | 8.1 | 28 | 80 | 10 | □ |
| HT22416 | ZPB0270-TH | 2.7 | 10 | 50 | 4 | □ | HT22456 | ZPB0820-TH | 8.2 | 28 | 80 | 10 | □ |
| HT22417 | ZPB0280-TH | 2.8 | 10 | 50 | 4 | □ | HT22457 | ZPB0830-TH | 8.3 | 28 | 80 | 10 | □ |
| HT22418 | ZPB0290-TH | 2.9 | 10 | 50 | 4 | □ | HT22458 | ZPB0840-TH | 8.4 | 28 | 80 | 10 | □ |
| HT21825 | ZPB0300-TH | 3 | 12 | 50 | 4 | ● | HT21840 | ZPB0850-TH | 8.5 | 28 | 80 | 10 | □ |
| HT22419 | ZPB0310-TH | 3.1 | 12 | 50 | 4 | □ | HT22459 | ZPB0860-TH | 8.6 | 28 | 80 | 10 | □ |
| HT22420 | ZPB0320-TH | 3.2 | 12 | 50 | 4 | □ | HT22460 | ZPB0870-TH | 8.7 | 28 | 80 | 10 | □ |
| HT21826 | ZPB0330-TH | 3.3 | 14 | 50 | 4 | □ | HT21841 | ZPB0880-TH | 8.8 | 28 | 80 | 10 | □ |
| HT22421 | ZPB0340-TH | 3.4 | 14 | 50 | 4 | □ | HT22461 | ZPB0890-TH | 8.9 | 28 | 80 | 10 | □ |
| HT21827 | ZPB0350-TH | 3.5 | 14 | 50 | 4 | □ | HT21842 | ZPB0900-TH | 9 | 28 | 80 | 10 | ● |
| HT22422 | ZPB0360-TH | 3.6 | 14 | 50 | 4 | □ | HT22462 | ZPB0910-TH | 9.1 | 30 | 80 | 10 | □ |
| HT22423 | ZPB0370-TH | 3.7 | 14 | 50 | 4 | □ | HT22463 | ZPB0920-TH | 9.2 | 30 | 80 | 10 | □ |
| HT22424 | ZPB0380-TH | 3.8 | 16 | 50 | 4 | □ | HT22464 | ZPB0930-TH | 9.3 | 30 | 80 | 10 | □ |
| HT22425 | ZPB0390-TH | 3.9 | 16 | 50 | 4 | □ | HT22465 | ZPB0940-TH | 9.4 | 30 | 80 | 10 | □ |
| HT21828 | ZPB0400-TH | 4 | 16 | 50 | 4 | ● | HT21843 | ZPB0950-TH | 9.5 | 29 | 80 | 10 | ● |
| HT22426 | ZPB0410-TH | 4.1 | 16 | 60 | 6 | □ | HT22466 | ZPB0960-TH | 9.6 | 32 | 80 | 10 | □ |
| HT21829 | ZPB0420-TH | 4.2 | 16 | 60 | 6 | □ | HT22467 | ZPB0970-TH | 9.7 | 32 | 80 | 10 | □ |
| HT22427 | ZPB0430-TH | 4.3 | 18 | 60 | 6 | □ | HT22468 | ZPB0980-TH | 9.8 | 32 | 80 | 10 | □ |
| HT22428 | ZPB0440-TH | 4.4 | 18 | 60 | 6 | □ | HT22469 | ZPB0990-TH | 9.9 | 32 | 80 | 10 | □ |
| HT21830 | ZPB0450-TH | 4.5 | 18 | 60 | 6 | ● | HT21844 | ZPB1000-TH | 10 | 32 | 80 | 10 | ● |
| HT22429 | ZPB0460-TH | 4.6 | 18 | 60 | 6 | □ | HT22470 | ZPB1010-TH | 10.1 | 33 | 90 | 12 | □ |
| HT22430 | ZPB0470-TH | 4.7 | 18 | 60 | 6 | □ | HT22471 | ZPB1020-TH | 10.2 | 33 | 90 | 12 | □ |
| HT22431 | ZPB0480-TH | 4.8 | 20 | 60 | 6 | □ | HT21845 | ZPB1030-TH | 10.3 | 33 | 90 | 12 | □ |
| HT22432 | ZPB0490-TH | 4.9 | 20 | 60 | 6 | □ | HT22472 | ZPB1040-TH | 10.4 | 33 | 90 | 12 | □ |
| HT21831 | ZPB0500-TH | 5 | 20 | 60 | 6 | ● | HT21846 | ZPB1050-TH | 10.5 | 33 | 90 | 12 | □ |
| HT22433 | ZPB0510-TH | 5.1 | 20 | 60 | 6 | □ | HT22473 | ZPB1060-TH | 10.6 | 33 | 90 | 12 | □ |
| HT22434 | ZPB0520-TH | 5.2 | 20 | 60 | 6 | □ | HT22474 | ZPB1070-TH | 10.7 | 33 | 90 | 12 | □ |
| HT21832 | ZPB0530-TH | 5.3 | 20 | 60 | 6 | □ | HT21847 | ZPB1080-TH | 10.8 | 33 | 90 | 12 | □ |
| HT22435 | ZPB0540-TH | 5.4 | 20 | 60 | 6 | □ | HT22475 | ZPB1090-TH | 10.9 | 33 | 90 | 12 | □ |
| HT21833 | ZPB0550-TH | 5.5 | 22 | 60 | 6 | ● | HT21848 | ZPB1100-TH | 11 | 33 | 90 | 12 | ● |
| HT22436 | ZPB0560-TH | 5.6 | 22 | 60 | 6 | □ | HT22476 | ZPB1110-TH | 11.1 | 34 | 90 | 12 | □ |
| HT22437 | ZPB0570-TH | 5.7 | 22 | 60 | 6 | □ | HT22477 | ZPB1120-TH | 11.2 | 34 | 90 | 12 | □ |
| HT22438 | ZPB0580-TH | 5.8 | 22 | 60 | 6 | □ | HT22478 | ZPB1130-TH | 11.3 | 34 | 90 | 12 | □ |
| HT22439 | ZPB0590-TH | 5.9 | 22 | 60 | 6 | □ | HT22479 | ZPB1140-TH | 11.4 | 34 | 90 | 12 | □ |
| HT21834 | ZPB0600-TH | 6 | 22 | 60 | 6 | ● | HT21849 | ZPB1150-TH | 11.5 | 34 | 90 | 12 | □ |
| HT22440 | ZPB0610-TH | 6.1 | 24 | 70 | 8 | □ | HT22480 | ZPB1160-TH | 11.6 | 38 | 90 | 12 | □ |
| HT22441 | ZPB0620-TH | 6.2 | 24 | 70 | 8 | □ | HT22481 | ZPB1170-TH | 11.7 | 38 | 90 | 12 | □ |
| HT22442 | ZPB0630-TH | 6.3 | 24 | 70 | 8 | □ | HT22482 | ZPB1180-TH | 11.8 | 38 | 90 | 12 | □ |
| HT22443 | ZPB0640-TH | 6.4 | 24 | 70 | 8 | □ | HT22483 | ZPB1190-TH | 11.9 | 38 | 90 | 12 | □ |
| HT21835 | ZPB0650-TH | 6.5 | 26 | 70 | 8 | □ | HT21850 | ZPB1200-TH | 12 | 38 | 90 | 12 | ● |
| HT22444 | ZPB0660-TH | 6.6 | 26 | 70 | 8 | □ | HT22484 | ZPB1250-TH | 12.5 | 40 | 100 | 12 | □ |
| HT22445 | ZPB0670-TH | 6.7 | 26 | 70 | 8 | □ | HT22485 | ZPB1300-TH | 13 | 40 | 100 | 12 | □ |
| HT21836 | ZPB0680-TH | 6.8 | 26 | 70 | 8 | □ | HT22486 | ZPB1350-TH | 13.5 | 40 | 100 | 12 | □ |
| HT22446 | ZPB0690-TH | 6.9 | 26 | 70 | 8 | □ | HT22487 | ZPB1400-TH | 14 | 40 | 100 | 12 | □ |
| HT21837 | ZPB0700-TH | 7 | 26 | 70 | 8 | ● | HT22488 | ZPB1450-TH | 14.5 | 40 | 105 | 12 | □ |
| HT22447 | ZPB0710-TH | 7.1 | 26 | 70 | 8 | □ | HT22489 | ZPB1500-TH | 15 | 40 | 105 | 12 | □ |
| HT22448 | ZPB0720-TH | 7.2 | 26 | 70 | 8 | □ | HT22490 | ZPB1550-TH | 15.5 | 42 | 110 | 12 | □ |
| HT22449 | ZPB0730-TH | 7.3 | 26 | 70 | 8 | □ | HT22491 | ZPB1600-TH | 16 | 42 | 110 | 16 | □ |
| HT22450 | ZPB0740-TH | 7.4 | 26 | 70 | 8 | □ | | | | | | | |

| 軟鋼 | 炭素鋼 | 合金鋼 | 調質鋼 | 工具鋼 | 焼入れ鋼 | | ステンレス鋼 | 耐熱鋼 Ti合金 | 鋳鉄 | ダクタイル鋳鉄 | アルミ合金 |
|----|------|---------|---------|--------|--------|--------|--------|----------|----|---------|-------|
| SS | S〇〇C | SCM・Scr | SKD・SKS | ~40HRC | ~45HRC | 45HRC~ | SUS | Inconel | FC | FCD | Al |
| ○ | ◎ | ◎ | ◎ | ○ | ○ | | | | ○ | | ○ |

●標準品 □特定代理店品

ZPBL5-TH

座ぐり加工用 ザグリボーラー ロングシャンク

開発技術の
日立ツール



●材質：超硬合金 ●表面処理：THコート (TiSiN) ●先端角：180°

・先端角が180°（フラット）により、平面だけでなく傾斜面に座ぐり穴加工できます。

| TYコード | 型番 | 刃径 | 溝長 | 全長 | シャンク | 分類 | TYコード | 型番 | 刃径 | 溝長 | 全長 | シャンク | 分類 |
|---------|--------------|-----|----|-----|------|----|---------|--------------|------|----|-----|------|----|
| HT23100 | ZPBL50200-TH | 2 | 8 | 80 | 4 | □ | HT23155 | ZPBL50750-TH | 7.5 | 26 | 120 | 6 | □ |
| HT23101 | ZPBL50210-TH | 2.1 | 8 | 80 | 4 | □ | HT23156 | ZPBL50760-TH | 7.6 | 28 | 120 | 6 | □ |
| HT23102 | ZPBL50220-TH | 2.2 | 8 | 80 | 4 | □ | HT23157 | ZPBL50770-TH | 7.7 | 28 | 120 | 6 | □ |
| HT23103 | ZPBL50230-TH | 2.3 | 8 | 80 | 4 | □ | HT23158 | ZPBL50780-TH | 7.8 | 28 | 120 | 6 | □ |
| HT23104 | ZPBL50240-TH | 2.4 | 8 | 80 | 4 | □ | HT23159 | ZPBL50790-TH | 7.9 | 28 | 120 | 6 | □ |
| HT23105 | ZPBL50250-TH | 2.5 | 10 | 80 | 4 | □ | HT23160 | ZPBL50800-TH | 8 | 28 | 130 | 8 | □ |
| HT23106 | ZPBL50260-TH | 2.6 | 10 | 80 | 4 | □ | HT23161 | ZPBL50810-TH | 8.1 | 28 | 130 | 8 | □ |
| HT23107 | ZPBL50270-TH | 2.7 | 10 | 80 | 4 | □ | HT23162 | ZPBL50820-TH | 8.2 | 28 | 130 | 8 | □ |
| HT23108 | ZPBL50280-TH | 2.8 | 10 | 80 | 4 | □ | HT23163 | ZPBL50830-TH | 8.3 | 28 | 130 | 8 | □ |
| HT23109 | ZPBL50290-TH | 2.9 | 10 | 80 | 4 | □ | HT23164 | ZPBL50840-TH | 8.4 | 28 | 130 | 8 | □ |
| HT23110 | ZPBL50300-TH | 3 | 12 | 100 | 6 | □ | HT23165 | ZPBL50850-TH | 8.5 | 28 | 130 | 8 | □ |
| HT23111 | ZPBL50310-TH | 3.1 | 12 | 100 | 6 | □ | HT23166 | ZPBL50860-TH | 8.6 | 28 | 130 | 8 | □ |
| HT23112 | ZPBL50320-TH | 3.2 | 12 | 100 | 6 | □ | HT23167 | ZPBL50870-TH | 8.7 | 28 | 130 | 8 | □ |
| HT23113 | ZPBL50330-TH | 3.3 | 14 | 100 | 6 | □ | HT23168 | ZPBL50880-TH | 8.8 | 28 | 130 | 8 | □ |
| HT23114 | ZPBL50340-TH | 3.4 | 14 | 100 | 6 | □ | HT23169 | ZPBL50890-TH | 8.9 | 28 | 130 | 8 | □ |
| HT23115 | ZPBL50350-TH | 3.5 | 14 | 100 | 6 | □ | HT23170 | ZPBL50900-TH | 9 | 28 | 130 | 8 | □ |
| HT23116 | ZPBL50360-TH | 3.6 | 14 | 100 | 6 | □ | HT23171 | ZPBL50910-TH | 9.1 | 30 | 130 | 8 | □ |
| HT23117 | ZPBL50370-TH | 3.7 | 14 | 100 | 6 | □ | HT23172 | ZPBL50920-TH | 9.2 | 30 | 130 | 8 | □ |
| HT23118 | ZPBL50380-TH | 3.8 | 16 | 100 | 6 | □ | HT23173 | ZPBL50930-TH | 9.3 | 30 | 130 | 8 | □ |
| HT23119 | ZPBL50390-TH | 3.9 | 16 | 100 | 6 | □ | HT23174 | ZPBL50940-TH | 9.4 | 30 | 130 | 8 | □ |
| HT23120 | ZPBL50400-TH | 4 | 16 | 100 | 6 | □ | HT23175 | ZPBL50950-TH | 9.5 | 30 | 130 | 8 | □ |
| HT23121 | ZPBL50410-TH | 4.1 | 16 | 100 | 6 | □ | HT23176 | ZPBL50960-TH | 9.6 | 32 | 130 | 8 | □ |
| HT23122 | ZPBL50420-TH | 4.2 | 16 | 100 | 6 | □ | HT23177 | ZPBL50970-TH | 9.7 | 32 | 130 | 8 | □ |
| HT23123 | ZPBL50430-TH | 4.3 | 18 | 100 | 6 | □ | HT23178 | ZPBL50980-TH | 9.8 | 32 | 130 | 8 | □ |
| HT23124 | ZPBL50440-TH | 4.4 | 18 | 100 | 6 | □ | HT23179 | ZPBL50990-TH | 9.9 | 32 | 130 | 8 | □ |
| HT23125 | ZPBL50450-TH | 4.5 | 18 | 100 | 6 | □ | HT23180 | ZPBL51000-TH | 10 | 32 | 150 | 10 | □ |
| HT23126 | ZPBL50460-TH | 4.6 | 18 | 100 | 6 | □ | HT23181 | ZPBL51010-TH | 10.1 | 33 | 150 | 10 | □ |
| HT23127 | ZPBL50470-TH | 4.7 | 18 | 100 | 6 | □ | HT23182 | ZPBL51020-TH | 10.2 | 33 | 150 | 10 | □ |
| HT23128 | ZPBL50480-TH | 4.8 | 20 | 110 | 6 | □ | HT23183 | ZPBL51030-TH | 10.3 | 33 | 150 | 10 | □ |
| HT23129 | ZPBL50490-TH | 4.9 | 20 | 110 | 6 | □ | HT23184 | ZPBL51040-TH | 10.4 | 33 | 150 | 10 | □ |
| HT23130 | ZPBL50500-TH | 5 | 20 | 110 | 6 | □ | HT23185 | ZPBL51050-TH | 10.5 | 33 | 150 | 10 | □ |
| HT23131 | ZPBL50510-TH | 5.1 | 20 | 110 | 6 | □ | HT23186 | ZPBL51060-TH | 10.6 | 33 | 150 | 10 | □ |
| HT23132 | ZPBL50520-TH | 5.2 | 20 | 110 | 6 | □ | HT23187 | ZPBL51070-TH | 10.7 | 33 | 150 | 10 | □ |
| HT23133 | ZPBL50530-TH | 5.3 | 20 | 110 | 6 | □ | HT23188 | ZPBL51080-TH | 10.8 | 33 | 150 | 10 | □ |
| HT23134 | ZPBL50540-TH | 5.4 | 20 | 110 | 6 | □ | HT23189 | ZPBL51090-TH | 10.9 | 33 | 150 | 10 | □ |
| HT23135 | ZPBL50550-TH | 5.5 | 22 | 110 | 6 | □ | HT23190 | ZPBL51100-TH | 11 | 33 | 150 | 10 | □ |
| HT23136 | ZPBL50560-TH | 5.6 | 22 | 110 | 6 | □ | HT23191 | ZPBL51110-TH | 11.1 | 34 | 150 | 10 | □ |
| HT23137 | ZPBL50570-TH | 5.7 | 22 | 110 | 6 | □ | HT23192 | ZPBL51120-TH | 11.2 | 34 | 150 | 10 | □ |
| HT23138 | ZPBL50580-TH | 5.8 | 22 | 110 | 6 | □ | HT23193 | ZPBL51130-TH | 11.3 | 34 | 150 | 10 | □ |
| HT23139 | ZPBL50590-TH | 5.9 | 22 | 110 | 6 | □ | HT23194 | ZPBL51140-TH | 11.4 | 34 | 150 | 10 | □ |
| HT23140 | ZPBL50600-TH | 6 | 22 | 120 | 6 | □ | HT23195 | ZPBL51150-TH | 11.5 | 34 | 150 | 10 | □ |
| HT23141 | ZPBL50610-TH | 6.1 | 24 | 120 | 6 | □ | HT23196 | ZPBL51160-TH | 11.6 | 38 | 150 | 10 | □ |
| HT23142 | ZPBL50620-TH | 6.2 | 24 | 120 | 6 | □ | HT23197 | ZPBL51170-TH | 11.7 | 38 | 150 | 10 | □ |
| HT23143 | ZPBL50630-TH | 6.3 | 24 | 120 | 6 | □ | HT23198 | ZPBL51180-TH | 11.8 | 38 | 150 | 10 | □ |
| HT23144 | ZPBL50640-TH | 6.4 | 24 | 120 | 6 | □ | HT23199 | ZPBL51190-TH | 11.9 | 38 | 150 | 10 | □ |
| HT23145 | ZPBL50650-TH | 6.5 | 26 | 120 | 6 | □ | HT23200 | ZPBL51200-TH | 12 | 38 | 150 | 12 | □ |
| HT23146 | ZPBL50660-TH | 6.6 | 26 | 120 | 6 | □ | HT23201 | ZPBL51250-TH | 12.5 | 40 | 150 | 12 | □ |
| HT23147 | ZPBL50670-TH | 6.7 | 26 | 120 | 6 | □ | HT23202 | ZPBL51300-TH | 13 | 40 | 150 | 12 | □ |
| HT23148 | ZPBL50680-TH | 6.8 | 26 | 120 | 6 | □ | HT23203 | ZPBL51350-TH | 13.5 | 40 | 150 | 12 | □ |
| HT23149 | ZPBL50690-TH | 6.9 | 26 | 120 | 6 | □ | HT23204 | ZPBL51400-TH | 14 | 40 | 150 | 12 | □ |
| HT23150 | ZPBL50700-TH | 7 | 26 | 120 | 6 | □ | HT23205 | ZPBL51450-TH | 14.5 | 40 | 150 | 12 | □ |
| HT23151 | ZPBL50710-TH | 7.1 | 26 | 120 | 6 | □ | HT23206 | ZPBL51500-TH | 15 | 40 | 150 | 12 | □ |
| HT23152 | ZPBL50720-TH | 7.2 | 26 | 120 | 6 | □ | HT23207 | ZPBL51550-TH | 15.5 | 42 | 150 | 12 | □ |
| HT23153 | ZPBL50730-TH | 7.3 | 26 | 120 | 6 | □ | HT23208 | ZPBL51600-TH | 16 | 42 | 150 | 16 | □ |
| HT23154 | ZPBL50740-TH | 7.4 | 26 | 120 | 6 | □ | | | | | | | |

| 軟鋼 | 炭素鋼 | 合金鋼 | 調質鋼 | 工具鋼 | 焼入れ鋼 | | ステンレス鋼 | 耐熱鋼 Ti合金 | 鋳鉄 | ダクタイル鋳鉄 | アルミ合金 |
|----|------|---------|---------|--------|--------|--------|--------|----------|----|---------|-------|
| SS | S〇〇C | SCM・Scr | SKD・SKS | ~40HRC | ~45HRC | 45HRC~ | SUS | Inconel | FC | FCD | Al |
| ○ | ◎ | ◎ | ◎ | ○ | ○ | | | | ○ | | ○ |

●標準品 □特定代理店品